

Title: PASSIVE POWER LINE DETECTION SYSTEM FOR AIRCRAFT

Inventor(s): Matthew D. Nixon et al.
 Atty. Dkt. # 7784-000231
 Atty. Mark D. Elchuk
 (248) 641-1600

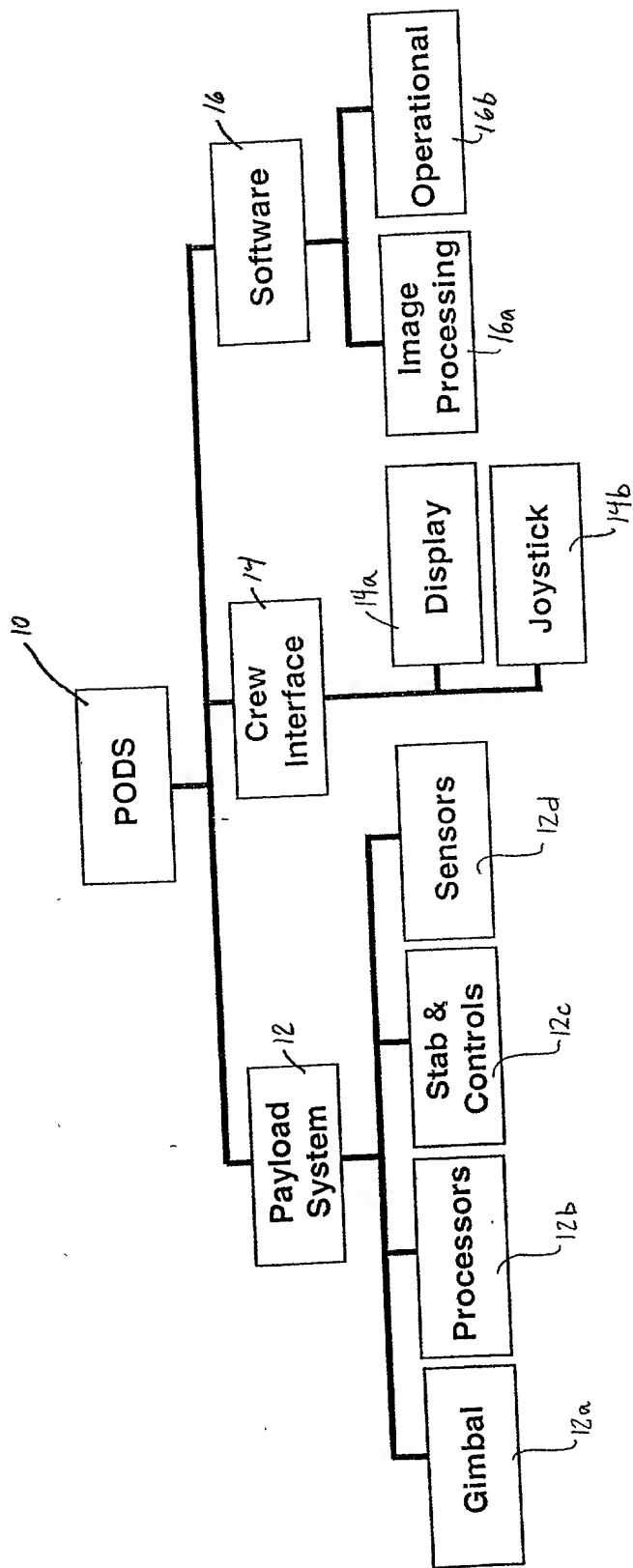


Figure 1

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Detection and Avoidance Sequence

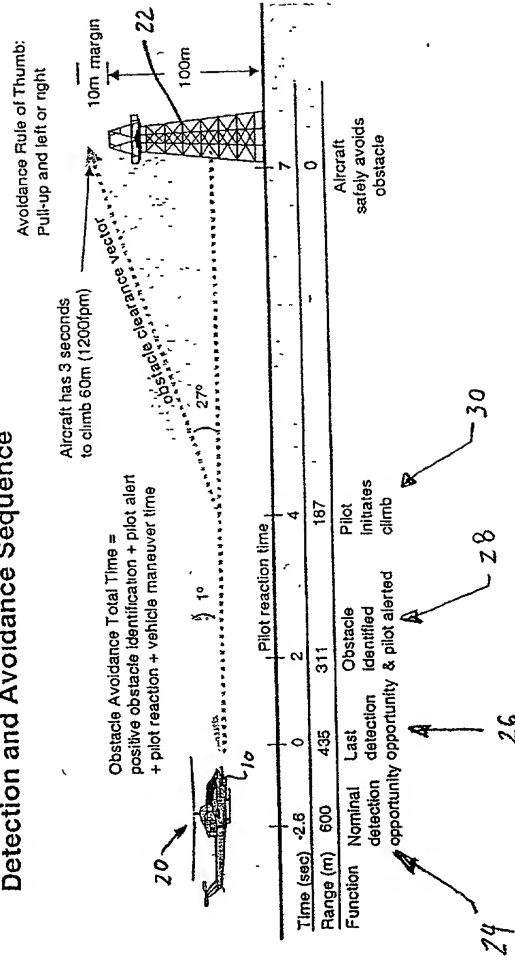


FIGURE 2

16a

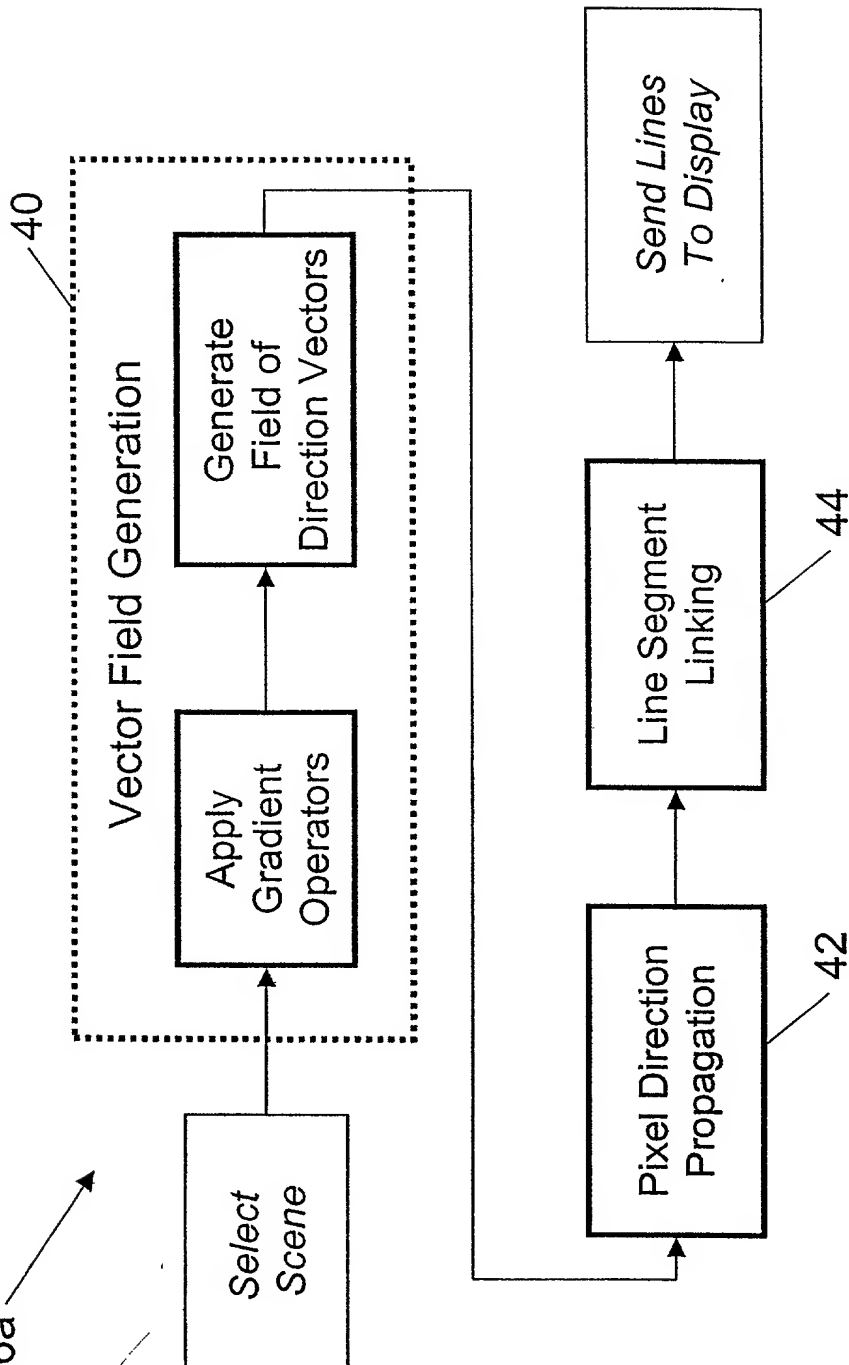


Figure 3

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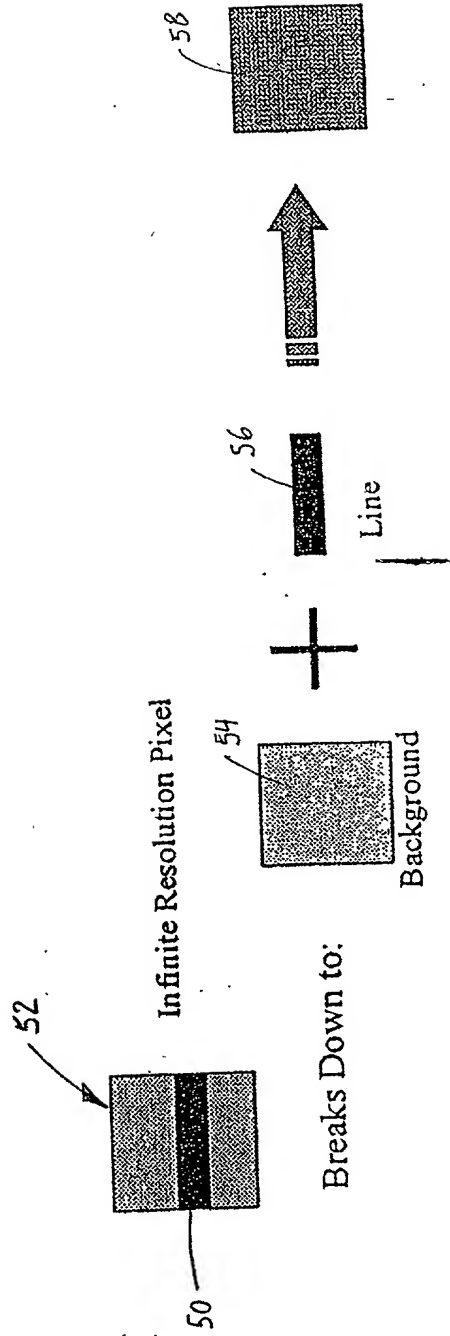


FIGURE 4

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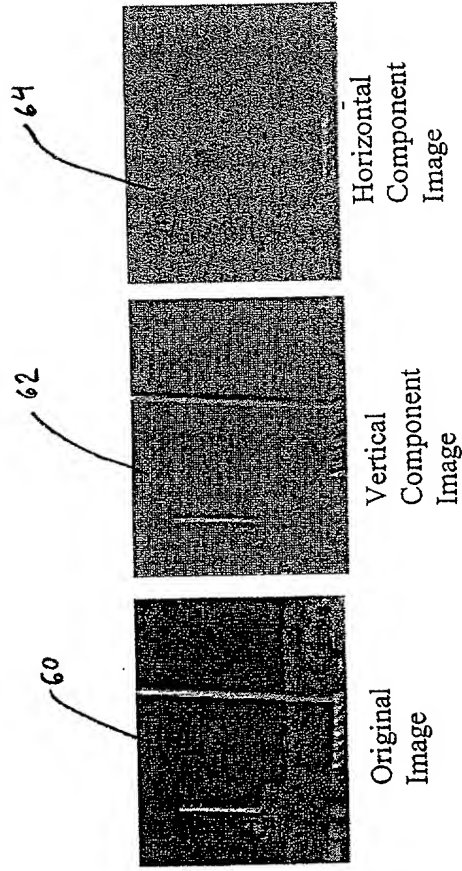


FIGURE 5

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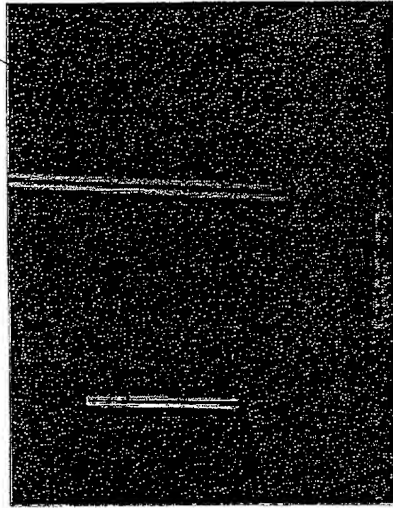


Figure 6

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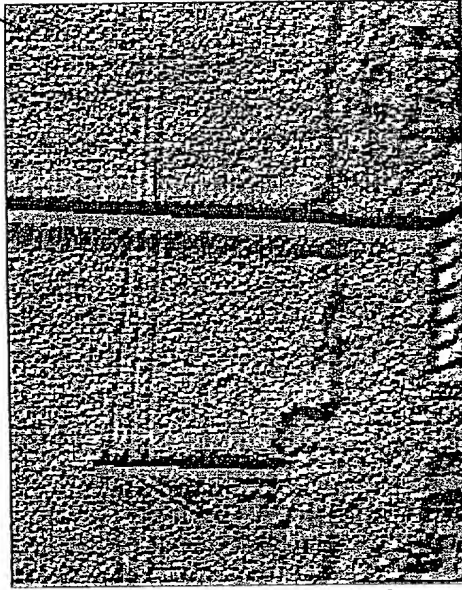


FIGURE 7

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Transition Rule:

$$e_{k,l}^+ = 1 \forall e_{k,l}^- \ni \left\{ \sum_{i,j} e_{(k+i),(l+j)}^- \geq n \right\}$$

otherwise

$$e_{k,l}^+ = 0 \forall e_{k,l}^- \ni \left\{ \sum_{i,j} e_{(k+i),(l+j)}^- < n \right\}$$

let $n = 3$

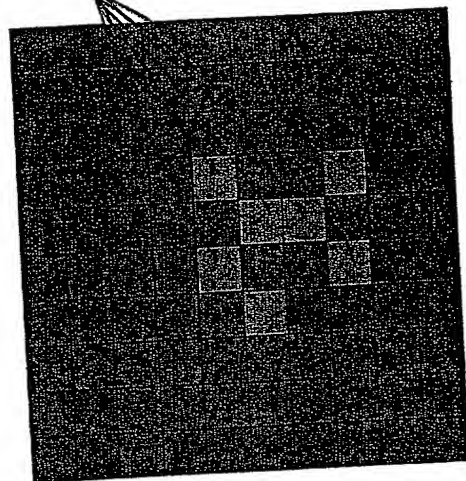
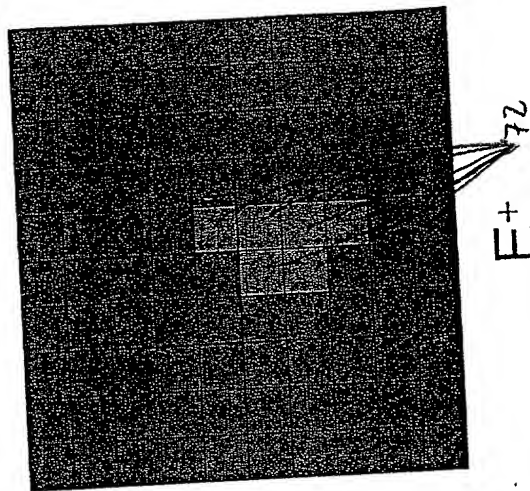


FIGURE 8

ATTORNEYS

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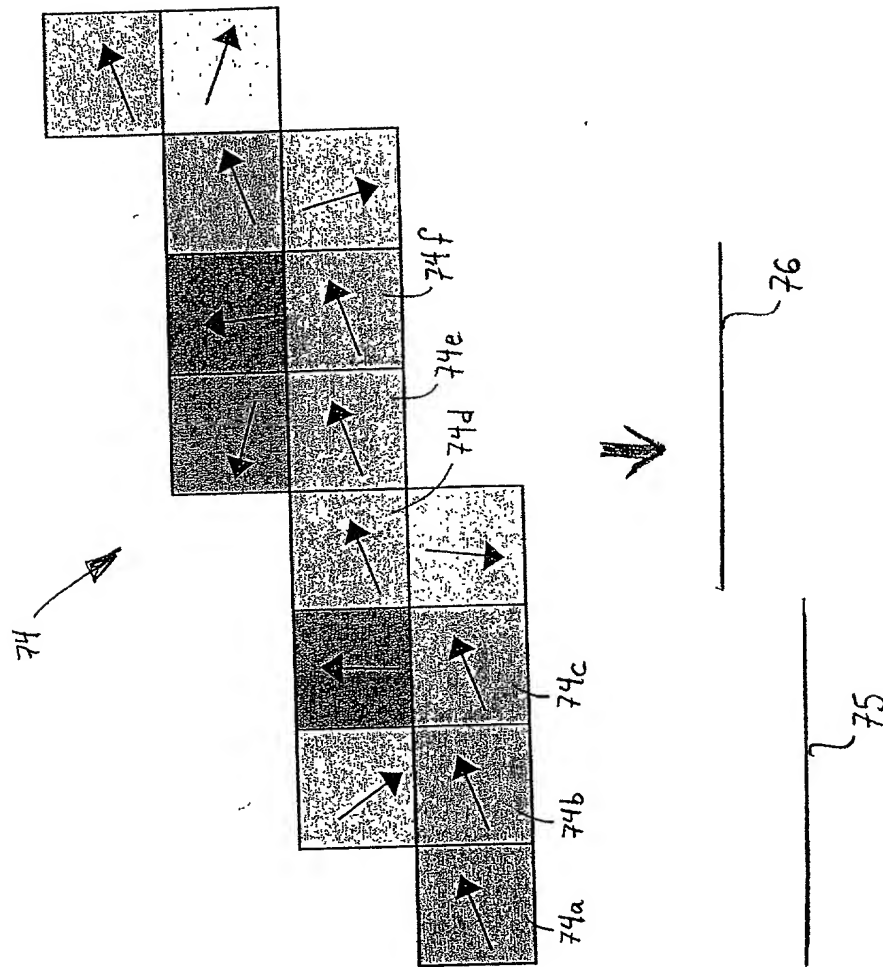


Figure 9

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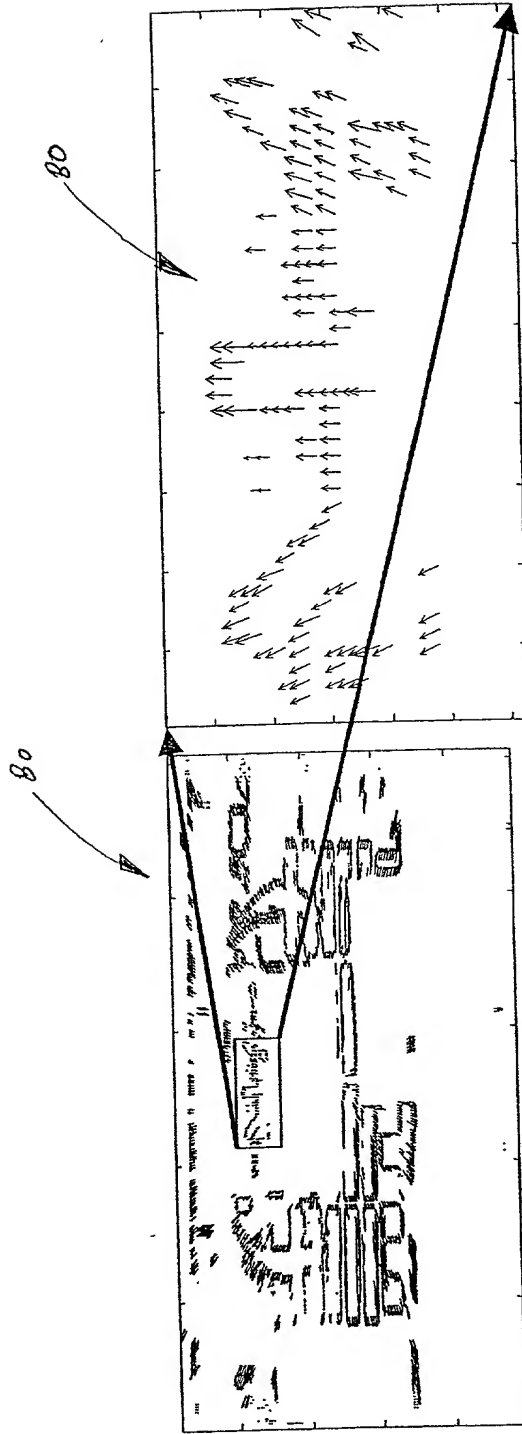


FIGURE 10